

Production of leather

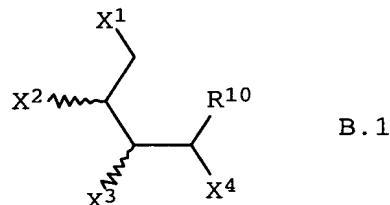
Abstract

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Leather is produced by a process comprising at least two of the following process steps A) to D):

- A) use of one or more polyelectrolytes in the production of
10 semifinished products or intermediate products, comprising
the addition of one or more polyelectrolytes in at least one
of the steps (a) to (d)
- (a) together with from 0 to 1.5% by weight, based on the
15 salted weight, of lime, immediately before or during
liming,
- (b) before or during deliming,
- 20 (c) before or during bating,
- (d) together with, altogether, from 0 to 3% by weight, based
on the pelt weight, of alkali metal or alkaline earth
metal salt, immediately before or during pickling;
- 25 B) treatment of the hides during liming in an aqueous liquor
with one or more compounds of the formula B.1

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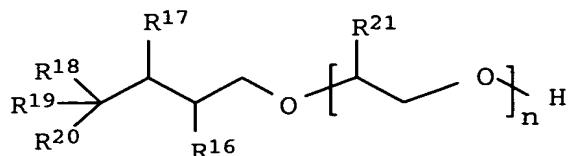
or the corresponding alkali metal, alkaline earth metal,
ammonium or phosphonium salts thereof, R¹⁰ and X¹ to X⁴ having
the meanings stated in the description, with the proviso that
40 at least two mercapto groups are present in the compound or
the compounds B.1;

- C) use of degreasing agents of the formula C.1

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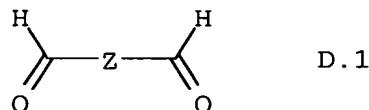


C.1

for degreasing pelts, hides or other intermediate stages and semifinished products in leather production, n and R¹⁶ to R²¹ having the meanings stated in the description;

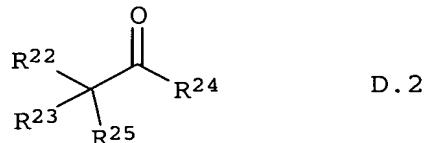
- 10 D) tanning with the use of a tanning agent which can be prepared by reacting at least one aldehyde of the formula D.1,

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with at least one further identical or different aldehyde of the formula D.1 in the presence of an acidic catalyst and
20 optionally in the presence of at least one further carbonyl compound of the formula D.2

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Z and R²² to R²⁵ having the meanings stated in the description, with the proviso that, when Z corresponds to a single chemical bond or a radical without α-hydrogen atoms, at least one further aldehyde of the formula D.1, in which Z contains α-hydrogen atoms, or at least one further carbonyl compound of the formula D.2 is present.

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